

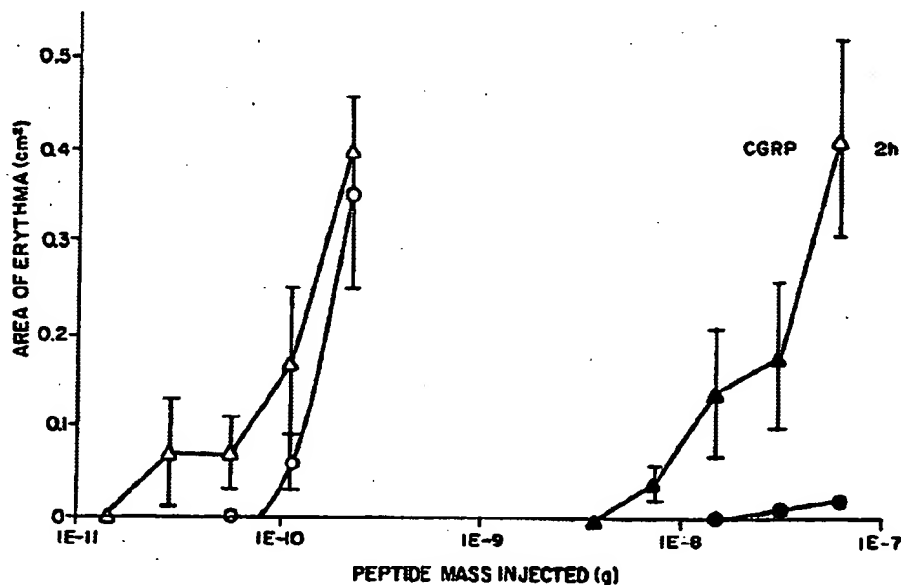


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(54) Title: VASODILATORY AND IMMUNE SUPPRESSANT PEPTIDES



(57) Abstract

Disclosed are proteins derived from the sand fly *Lutzomyia longipalpis* capable of inducing vasodilation in mammals, and data characterizing the proteins and nucleic acid encoding the proteins. Also disclosed is a method for temporarily inactivating the immune system in a mammal comprising administering to the mammal the *Lutzomyia* protein, CGRP, calcitonin, or active immune suppressing analogs thereof.